

53.	1	4	5	8	10	11	119.	3	6	7	10	11	12
54.	1	4	6	7	10	11	120.	3	6	8	9	11	12
55.	1	4	6	8	9	12	121.	4	5	6	7	9	10
56.	1	4	7	8	9	10	122.	4	5	6	8	11	12
57.	1	4	7	8	11	12	123.	4	5	7	8	9	11
58.	1	4	9	10	11	12	124.	4	5	7	10	11	12
59.	1	5	6	7	11	12	125.	4	5	8	9	10	12
60.	1	5	6	8	9	10	126.	4	6	7	8	10	12
61.	1	5	7	8	10	12	127.	4	6	7	9	11	12
62.	1	5	7	9	10	11	128.	4	6	8	9	10	11
63.	1	5	8	9	11	12	129.	5	6	7	8	9	12
64.	1	6	7	8	9	11	130.	5	6	7	8	10	11
65.	1	6	7	9	10	12	131.	5	6	9	10	11	12
66.	1	6	8	10	11	12	132.	7	8	9	10	11	12

Table 15.13. S(5,6,12)

Hits	Number of matches						
	6	5	4	3	2	1	%
6	1	-	45	40	45	-	14.286
	-	6	30	60	30	6	85.714
5	-	1	15	50	50	15	100.000
4	-	-	4	32	60	32	100.000
3	-	-	-	12	54	54	100.000
2	-	-	-	-	30	72	100.000
1	-	-	-	-	-	66	100.000

Table 15.14. Spectrum of S(5,6,12)

15.9 A least-cost 4-if-6 wheel on 12 numbers in Pick-6 lotto

	$n = 12,$						$k = 6$						
1.	1	2	3	4	5	6	4.	4	5	6	7	8	9
2.	1	2	3	7	8	9	5.	4	5	6	10	11	12
3.	1	2	3	10	11	12	6.	7	8	9	10	11	12

Table 15.15. MLD(12,6,6,4)

Hits	Number of matches						
	6	5	4	3	2	1	%
6	1	-	-	4	-	-	0.649
	-	1	1	2	1	1	23.377
	-	-	1-3	0-4	1-3	-	75.974
5	-	1	-	2	2	-	4.545
	-	-	0-2	1-3	1-3	0-2	95.455
4	-	-	1	0-2	0-4	0-2	18.182
	-	-	-	0-2	2-6	0-2	81.818
3	-	-	-	3	-	-	1.818
	-	-	-	1	2	2	49.091
	-	-	-	-	3	3	49.091
2	-	-	-	-	3	-	18.182
	-	-	-	-	1	4	81.818
1	-	-	-	-	-	3	100.000

Table 15.16. Spectrum of MLD(12, 6, 6, 4)

15.10 A 4-if-5 wheel on 13 numbers in Pick-6 lotto

		$n = 13, k = 6$					
1.	1 2 3 4 5 6	12.	2 3 4 8 9 10				
2.	1 2 4 7 8 11	13.	2 3 6 7 10 13				
3.	1 2 6 9 11 13	14.	2 3 7 11 12 13				
4.	1 2 9 10 12 13	15.	2 4 5 7 9 12				
5.	1 3 4 8 12 13	16.	2 5 6 8 12 13				
6.	1 3 6 7 9 12	17.	2 5 8 10 11 13				
7.	1 3 7 9 10 11	18.	3 4 5 9 11 13				
8.	1 4 5 7 10 13	19.	3 5 6 7 8 11				
9.	1 4 6 10 11 12	20.	3 5 7 8 10 12				
10.	1 5 6 8 9 10	21.	4 6 7 8 9 13				
11.	1 5 8 9 11 12						

Table 15.17. LD(13, 6, 5, 4)